

List of Plants

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*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
Acacia decurrens	Plant	--	--		*
Acacia nilotica	Plant	--	--		*
Aconitum napellus	Plant	--	--		*
Aconitum napellus	Root	--	--		*
Allium ampeloprasum	Plant	--	--		*
Allium sativum var. sativum	Bulb	--	14000.0	-1.0	*
Allium sativum var. sativum	Leaf	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Allium cepa	Bulb	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Allium cepa	Leaf	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Alocasia macrorrhiza	Plant	--	--		*
Aloe vera	Stem Essent. Oil	--	--		Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
Aloe vera	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Aloe vera	Leaf	--	--		Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
Ananas comosus	Fruit	6000.0	23000.0	-0.57	*
Anastatica hierochuntica	Fruit	--	--		*
Angelica sinensis	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Angelica archangelica	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Annona squamosa	Fruit	--	--		*
Annona muricata	Plant	--	--		*
Anogeissus latifolia	Plant	--	--		*
Apium graveolens	Shoot	--	--		*
Apium graveolens	Plant	--	--		*
Arctium lappa	Root	--	--		Jim Duke's personal files.
Armoracia rusticana	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Arnica montana	Rhizome	--	25000.0	-0.66	*
Artemisia dracunculus	Root	--	--		*
Artemisia dracunculus	Leaf	--	--		*
Asimina triloba	Fruit	13000.0	119658.0	1.01	*
Asparagus officinalis	Root	--	--		*
Asparagus officinalis	Rhizome	--	--		*
Avena sativa	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Avena sativa	Root	--	--		*
Berberis vulgaris	Plant	--	--		*
Borago officinalis	Leaf	--	--		Jim Duke's personal files.
Boswellia serrata	Resin, Exudate, Sap	--	--		Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
Carica papaya	Fruit	--	--		Jim Duke's personal files.
Carica papaya	Leaf	--	--		Jim Duke's personal files.
Carica papaya	Bark	--	--		Jim Duke's personal files.
Ceratonia siliqua	Fruit	50700.0	118300.0	0.99	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cichorium intybus	Root	45000.0	220000.0	2.0	*
Citrullus colocynthis	Petiole	--	--		*
Citrus paradisi	Plant	--	12400.0		*
Citrus sinensis	Fruit	--	23800.0	-0.56	*
Cocos nucifera	Resin, Exudate, Sap	--	2100.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cocos nucifera	Root	--	--		Jim Duke's personal files.
Cocos nucifera	Juice	--	22200.0		Jim Duke's personal files.
Coriandrum sativum	Fruit	--	--		*
Crocus sativus	Silk Stigma Style	--	--		*
Curcuma longa	Rhizome	--	120000.0	1.41	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Cuscuta reflexa	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cydonia oblonga	Fruit	--	--		*
Cyphomandra betacea	Fruit	--	--		*
Daucus carota	Root	--	--		*
Elytrigia repens	Rhizome	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Ficus carica	Fruit	--	22950.0	-0.57	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Ginkgo biloba	Seed	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
Glycine max	Stem	--	--		*
Glycyrrhiza glabra	Root	--	--		*
Harpagophytum procumbens	Tuber	--	--		*

<i>Harpagophytum procumbens</i>	Root	--	2700.0	-0.53	*
<i>Helianthus annuus</i>	Flower	--	--		*
<i>Hordeum vulgare</i>	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Humulus lupulus</i>	Fruit	15000.0	20000.0	-0.62	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Jatropha curcas</i>	Seed	--	--		*
<i>Juniperus communis</i>	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Leonotis nepetaefolia</i>	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ligustrum lucidum</i>	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Ligustrum japonicum</i>	Fruit	--	--		*
<i>Lycopersicon esculentum</i>	Fruit	--	11700.0	-0.75	*
<i>Lycoris radiata</i>	Bulb	--	21400.0	1.0	*
<i>Maclura pomifera</i>	Shoot	--	--		*
<i>Malus domestica</i>	Fruit	50100.0	60800.0	0.05	*
<i>Mangifera indica</i>	Fruit	25700.0	48300.0	-0.16	*
<i>Manilkara zapota</i>	Fruit	44700.0	71300.0	0.22	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Matricaria recutita</i>	Plant	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
<i>Medicago sativa</i>	Plant	--	--		*
<i>Melilotus indica</i>	Plant	--	--		*
<i>Morus alba</i>	Leaf	--	--		*
<i>Musa x paradisiaca</i>	Fruit	--	35000.0	-0.37	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Myrciaria dubia</i>	Fruit	--	--		Jim Duke's personal files.
<i>Nicotiana tabacum</i>	Root	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Olea europaea</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Opuntia ficus-indica</i>	Fruit	4500.0	44100.0	-0.22	*
<i>Panax ginseng</i>	Leaf	--	6500.0	-1.35	*
<i>Panax quinquefolius</i>	Tissue Culture	--	--		*
<i>Panax quinquefolius</i>	Root	--	3400.0	-0.52	*
<i>Panax ginseng</i>	Tissue Culture	--	--		*
<i>Panax ginseng</i>	Stem	--	1800.0		*
<i>Panax ginseng</i>	Root	200.0	6000.0	-0.49	*
<i>Phoenix dactylifera</i>	Seed	--	15300.0	1.41	Abstract (See species file)
<i>Phoenix dactylifera</i>	Fruit	--	308000.0	4.09	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Physalis ixocarpa</i>	Fruit	3420.0	18980.0	-0.63	*
<i>Phytolacca americana</i>	Fruit	--	14000.0	-0.72	*

<i>Pinus sylvestris</i>	Leaf	--	25000.0	0.32	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pinus sylvestris</i>	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Piper methysticum</i>	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Plantago ovata</i>	Seed	--	--		*
<i>Polygonum hydropiper</i>	Plant	--	--		*
<i>Polypodium vulgare</i>	Rhizome	--	21000.0	-0.75	*
<i>Portulaca oleracea</i>	Plant	--	--		*
<i>Prunella vulgaris</i>	Na	--	--		*
<i>Prunus cerasus</i>	Fruit	61000.0	72400.0	0.24	*
<i>Prunus armeniaca</i>	Fruit	14000.0	42000.0	-0.26	*
<i>Prunus domestica</i>	Fruit	27000.0	61000.0	0.05	USDA's Ag Handbook 8 and sequelae)
<i>Psidium guajava</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Punica granatum</i>	Fruit	--	--		*
<i>Punica granatum</i>	Fruit Juice	--	--		*
<i>Rhamnus cathartica</i>	Fruit	--	--		*
<i>Rheum officinale</i>	Root	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Ribes rubrum</i>	Fruit	--	19300.0	-0.63	*
<i>Ribes nigrum</i>	Fruit	--	36700.0	-0.34	*
<i>Ribes uva-crispa</i>	Fruit	--	41000.0	-0.27	*
<i>Rosa spp</i>	Fruit	--	--		*
<i>Rosa canina</i>	Fruit	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Rosa canina</i>	Seed	--	--		*
<i>Rubus idaeus</i>	Fruit	--	--		*
<i>Rubus chingii</i>	Fruit	--	--		*
<i>Sambucus nigra</i>	Fruit	24100.0	154150.0	1.57	*
<i>Santalum album</i>	Fruit	--	--		*
<i>Scrophularia buergeriana</i>	Root	--	--		*
<i>Serenoa repens</i>	Fruit	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Silybum marianum</i>	Seed	--	--		*
<i>Sinapis alba</i>	Seed	--	--		*
<i>Solanum nigrum</i>	Fruit	75000.0	100000.0	0.69	*
<i>Solanum tuberosum</i>	Plant	--	--		*
<i>Spondias pinnata</i>	Fruit	--	18000.0	-0.65	*
<i>Symphytum officinale</i>	Root	--	--		*
<i>Tamarindus indica</i>	Fruit	90000.0	120000.0	1.02	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

<i>Taraxacum officinale</i>	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Terminalia bellirica</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Terminalia chebula</i>	Fruit	--	10000.0	-0.78	*
<i>Terminalia bellirica</i>	Seed	--	--		Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of <i>Diospyros melanoxylon</i> , <i>Tecomella undulata</i> and <i>Terminalia bellirica</i> . J. Indian Chem. Soc. 74 6: 504-505.
<i>Teucrium chamaedrys</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium montanum</i>	Leaf	--	33000.0	1.04	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium polium</i>	Plant	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Theobroma cacao</i>	Plant	--	--		*
<i>Theobroma cacao</i>	Seed	--	2000.0	-0.6	*
<i>Trigonella foenum-graecum</i>	Plant	--	--		*
<i>Trigonella foenum-graecum</i>	Seed	--	--		*
<i>Triticum aestivum</i>	Seed	--	600.0	-0.81	*
<i>Tussilago farfara</i>	Leaf	--	--		*
<i>Ulmus rubra</i>	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Urtica dioica</i>	Root	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
<i>Vaccinium vitis-idaea</i>	Fruit	--	50000.0	-0.13	*
<i>Vaccinium corymbosum</i>	Fruit	--	--		*
<i>Vaccinium myrtillus</i>	Fruit	--	--		*
<i>Valeriana officinalis</i>	Root	--	9000.0	-0.46	*
<i>Vanilla planifolia</i>	Fruit	--	7500.0	-0.82	*
<i>Veratrum album</i>	Root	--	--		*
<i>Vetiveria zizanioides</i>	Root	--	--		*
<i>Vinca minor</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vitis vinifera</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Zea mays</i>	Fruit	1000.0	4000.0	-0.88	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Zingiber officinale</i>	Root	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Zingiber officinale</i>	Rhizome	--	--		*
<i>Zizyphus jujuba</i>	Fruit	--	--		*